FLIGHT SUMMARY REPORT

Flight Number: 90-006

Date: 6 October 1989

Julian Date: 279

Aircraft #: 706

Sensor Package:

Wild-Heerbrug RC-10

Large Area Collectors (LAC)

Purpose of Flight: 90P226

Zolensky, NASA-JSC

Area(s) Covered: San Francisco Peninsula and Monterey Coastline

SENSOR DATA

Accession #:

03957

Sensor ID #:

034

100

Sensor Type:

RC-10

LAC

Focal Length:

12"

Film Type:

High Definition

Aerochrome IR

SO-131

Filtration:

cc .30B

Spectral Band:

510-900 nm

304.66 mm

f Stop:

4

Shutter Speed:

1/175

of Frames:

168

% Overlap:

60%

Quality:

Excellent

Remarks:

Coastal stratus

Non-imaging Impact

Sampler

Airborne Science and Applications Program

The Airborne Science and Applications Program (ASAP) is supported by three ER-2 high altitude Earth Resources Survey aircraft. These aircraft are operated by the High Altitude Missions Branch at NASA-Ames Research Center, Moffett Field, California. The ER-2s are used as readily deployable high altitude sensor platforms to collect remote sensing and in situ data on earth resources, celestial phenomena, atmospheric dynamics, and oceanic processes. Additionally, these aircraft are used for electronic sensor research and development and satellite investigative support.

The ER-2s are flown from various deployment sites in support of scientific research sponsored by NASA and other federal, state, university, and industry investigators. Data are collected from deployment sites in Kansas, Texas, Virginia, Florida, and Alaska. Cooperative international scientific projects have deployed the aircraft to sites in Great Britain, Australia, Chile, and Norway.

Photographic and digital imaging sensors are flown aboard the ER-2s in support of research objectives defined by the sponsoring investigators. High resolution mapping cameras and digital multispectral imaging sensors are utilized in a variety of configurations in the ER-2s' four pressurized experiment compartments.

Camera Systems

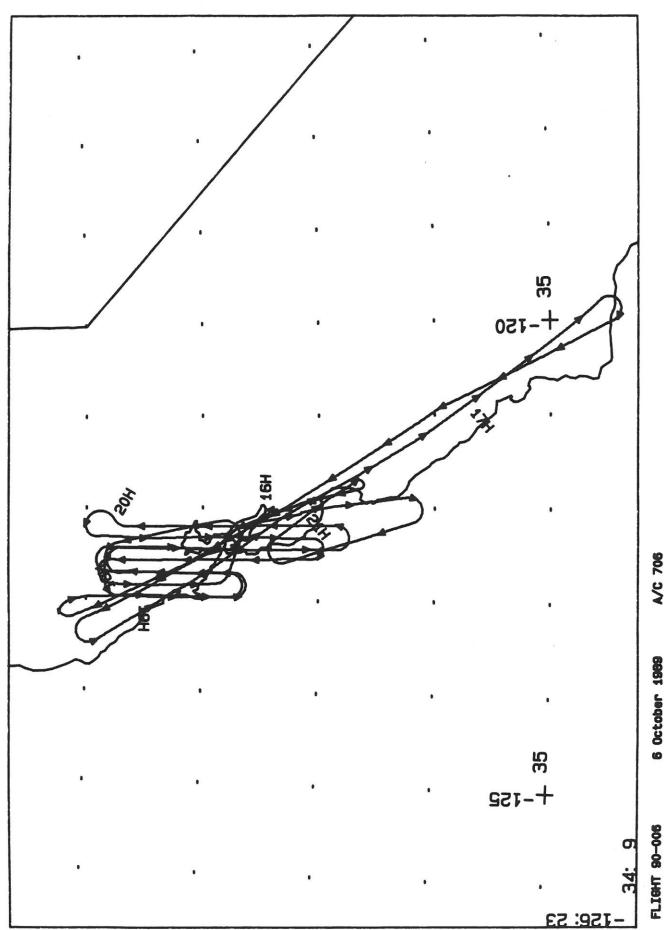
Various camera systems and films are used for photographic data collection. Film types include high definition color infrared, natural color, and black and white emulsions. Available photographic systems are as follows:

- * Wild-Heerbrug RC-10 metric mapping camera
 - 9 x 9 inch film format
 - 6 inch focal length lens provides area coverage of 16 x 16 nautical miles from 65,000 feet
 - 12 inch focal length lens provides area coverage of 8 x 8 nautical miles from 65,000 feet
- * Hycon HR-732 large scale mapping camera
 - 9 x 18 inch film format
 - 24 inch focal length lens provides area coverage of 4 x 8 nautical miles from 65,000 feet
- * Iris II Panoramic camera
 - 4.5 x 34.7 inch film format
 - 24 inch focal length lens
 - 90 degree field of view provides area coverage of 2 x 21.4 nautical miles from 65,000 feet

CAMERA FLIGHT LINE DATA FLIGHT NO. 90-006

Accession No. 03957

	1	ī	Time (GMT-hr,	c, min, sec)		
Sensor # 034	Cneck	Frame	START	END	Altitude, MSL feet/meters	Cloud Cover/Remarks
	ا د	4645-4646	81.76.91	16.27.47	00801/00039	, veo [0
		1	07.77.07	15.77.01	00061 /00060	Crear, Crearing Irame
	C - D	4647-4660	18:59:29	19:05:08	=	10-60% coastal stratus (frames 4654-4660)
	EI I	4661-4675	19:11:54	19:18:24	=	10-50% coastal stratus (frames 4661-4662)
	н б	4676-4704	19:24:33	19:37:34	=	10-80% coastal stratus (frames 4691-4704)
	I - J	4705-4736	19:44:34	19:58:59	=	10-60% coastal stratus (frames 4705-4707)
	K - L	4737-4766	20:07:50	20:21:19	2	10-40% coastal stratus (frames 4760-4766)
	M -	4767-4788	20:28:30	20:38:15	=	10-100% coastal stratus (frames 4767-4775)
	о О	4789-4802	20:44:14	20:50:17	=	10-60% coastal stratus (frames 4800-4802)
	0 R	4803-4812	21:04:32	21:08:19	2	10-80% coastal stratus (frames 4803-4812)



38.4 CM = -121.6 ROTATED BY 5.00 MINUTES 33.6 SP2 = TIME TICS EVERY 8P1 = LANBERT CONFORMAL PROJECTION A/C 706 SCALE = 1: 3.64E+06 6 October 1989 16: 00: 20 TO 21: 54: 50 UT OVERLAY FOR SCMUBA

